



Water-Data Report 2008

08164503 West Mustang Creek near Ganado, TX

Lavaca Basin
Navidad Subbasin

LOCATION.--Lat 29°04'17", long 96°28'01" referenced to North American Datum of 1927, Jackson County, TX, Hydrologic Unit 12100102, on right bank at upstream end of southbound U.S. Highway 59 bridge, 2.1 mi upstream from Middle Mustang Creek, and 3.6 mi east of Ganado.

DRAINAGE AREA.--178 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 40.12 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Much of low flow during the irrigation season (Apr. to Sept.) is drainage from rice fields irrigated by water originally diverted from the Colorado River. No known regulation or diversions. No flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,590 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sep 14	2200	*2,490	*15.01

08164503 West Mustang Creek near Ganado, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	1.8	12	3.6	22	5.2	e1.6	10	3.5	7.7	11	5.4
2	12	1.6	12	3.4	15	3.8	1.6	5.2	3.8	9.4	9.4	4.3
3	13	1.3	10	3.7	11	2.8	1.5	3.7	3.4	9.6	5.7	5.1
4	15	1.1	9.4	3.6	12	2.3	2.0	2.7	2.5	35	4.7	5.2
5	16	1.1	8.0	3.8	8.4	2.1	3.8	3.9	1.5	53	5.5	3.9
6	14	0.92	8.9	3.8	5.6	13	10	8.3	1.5	46	5.7	3.1
7	15	0.75	13	3.7	18	986	21	6.8	3.1	42	7.0	2.7
8	24	0.88	11	3.9	11	885	15	8.7	3.3	34	5.8	2.8
9	26	0.77	10	3.8	6.9	126	19	8.5	2.6	24	5.1	3.4
10	21	0.69	9.4	3.9	4.8	93	17	7.0	2.1	144	4.8	3.0
11	21	0.55	8.9	3.8	46	745	14	4.9	1.9	83	8.4	2.3
12	30	0.57	8.7	3.8	1,690	261	13	6.7	3.9	45	9.3	1.9
13	25	0.53	13	3.8	1,370	94	20	6.9	5.2	23	10	1.5
14	19	0.42	12	3.6	254	52	12	6.1	3.3	14	11	1,130
15	17	0.27	12	3.8	90	31	7.6	9.7	2.6	13	7.9	1,890
16	78	0.19	51	7.4	52	19	8.8	9.9	2.6	20	5.4	683
17	433	0.26	49	36	366	11	6.7	9.3	3.3	15	7.1	183
18	349	0.71	21	35	379	9.2	15	7.3	2.6	12	16	94
19	205	281	15	274	108	9.1	55	6.7	2.9	12	25	60
20	99	153	12	913	65	6.4	52	9.0	2.6	13	51	42
21	59	75	9.2	286	364	4.1	32	7.3	3.7	16	1,010	34
22	35	46	7.4	157	238	3.3	21	6.1	9.2	20	324	28
23	27	31	5.9	363	133	2.8	11	4.9	11	15	100	18
24	33	25	5.3	398	75	5.3	5.5	4.7	9.8	e35	53	13
25	26	27	4.9	272	37	5.6	3.5	4.9	9.0	e52	30	12
26	12	57	4.6	206	22	5.2	3.4	3.9	7.1	e55	18	11
27	9.9	57	4.2	116	12	4.3	107	1.6	9.7	44	12	10
28	6.1	38	4.4	68	6.7	3.0	74	1.5	11	32	24	8.9
29	4.2	25	4.3	67	5.6	2.2	48	2.2	7.8	23	24	7.2
30	3.1	19	4.1	56	---	1.9	23	3.0	6.0	13	12	6.1
31	2.4	---	3.7	45	---	1.7	---	2.7	---	8.2	7.3	---
Total	1,661.7	848.41	364.3	3,355.4	5,428.0	3,396.3	625.0	184.1	142.5	967.9	1,830.1	4,274.8
Mean	53.6	28.3	11.8	108	187	110	20.8	5.94	4.75	31.2	59.0	142
Max	433	281	51	913	1,690	986	107	10	11	144	1,010	1,890
Min	2.4	0.19	3.7	3.4	4.8	1.7	1.5	1.5	1.5	7.7	4.7	1.5
Ac-ft	3,300	1,680	723	6,660	10,770	6,740	1,240	365	283	1,920	3,630	8,480
Cfsm	0.30	0.16	0.07	0.61	1.05	0.62	0.12	0.03	0.03	0.18	0.33	0.80
In.	0.35	0.18	0.08	0.70	1.13	0.71	0.13	0.04	0.03	0.20	0.38	0.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2008, BY WATER YEAR (WY)

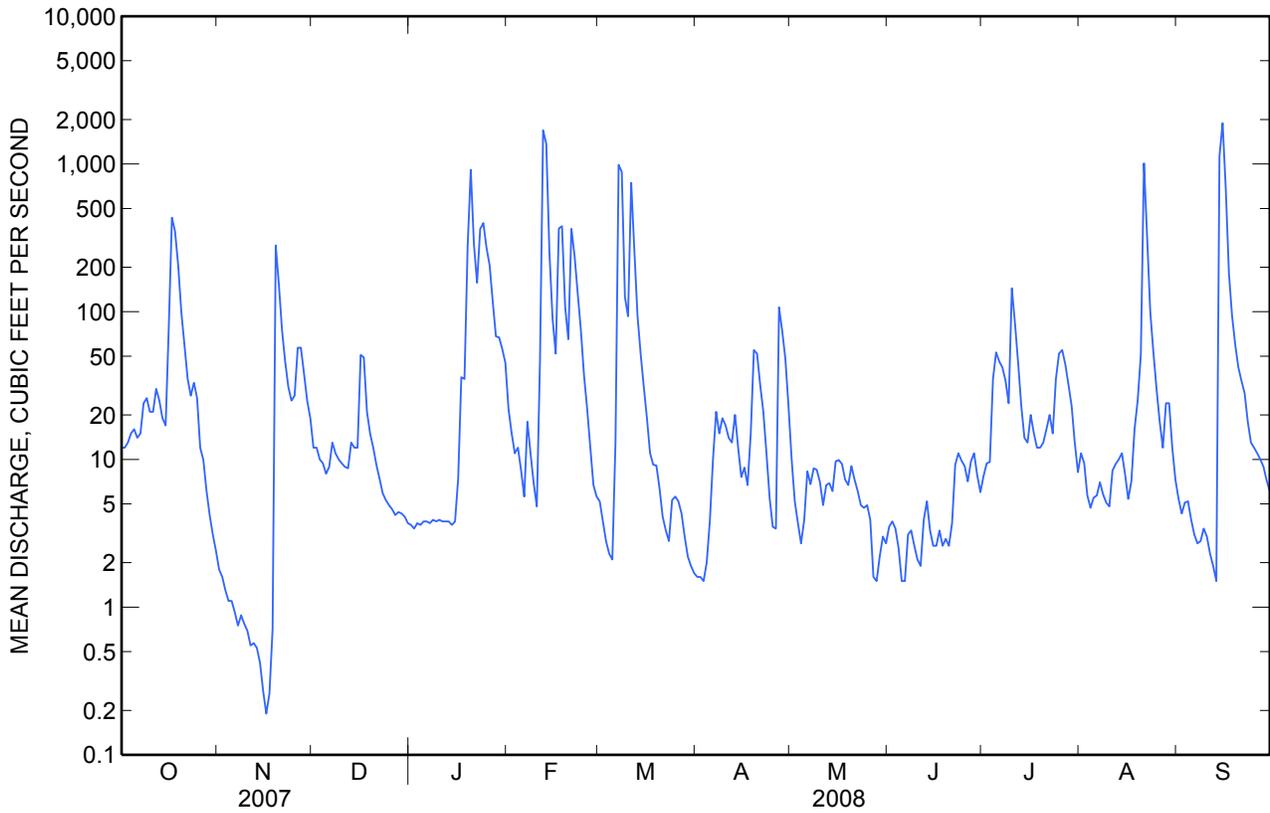
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	251	243	105	170	142	112	150	212	186	184	58.0	236
Max	1,746	2,262	587	881	1,243	988	1,107	903	958	1,682	197	1,173
(WY)	(1995)	(2005)	(1992)	(1980)	(1992)	(1997)	(1997)	(2004)	(1993)	(2007)	(2007)	(2001)
Min	14.2	1.32	0.17	0.72	0.87	0.81	11.0	5.94	4.75	31.2	9.80	5.33
(WY)	(1988)	(2000)	(1991)	(1982)	(1986)	(1986)	(2006)	(2008)	(2008)	(2008)	(2006)	(1988)

08164503 West Mustang Creek near Ganado, TX—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1978 - 2008	
Annual total	110,609.31		23,078.51			
Annual mean	303		63.1		171	
Highest annual mean					325	1997
Lowest annual mean					45.2	1990
Highest daily mean	7,150	Jul 3	1,890	Sep 15	18,700	Oct 19, 1994
Lowest daily mean	0.19	Nov 16	0.19	Nov 16	0.00	Dec 19, 1990
Annual seven-day minimum	0.40	Nov 11	0.40	Nov 11	0.01	Dec 19, 1990
Maximum peak flow			2,490 Sep 14		20,000 Oct 19, 1994	
Maximum peak stage			15.01 Sep 14		28.39 Oct 19, 1994	
Annual runoff (ac-ft)	219,400		45,780		123,600	
Annual runoff (cfsm)	1.70		0.354		0.958	
Annual runoff (inches)	23.12		4.82		13.02	
10 percent exceeds	768		102		317	
50 percent exceeds	25		9.9		21	
90 percent exceeds	2.4		2.3		1.7	

^a From floodmark.



08164503 West Mustang Creek near Ganado, TX—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: Oct. 1977 to Mar. 1997, July 2000 to current year.

BIOCHEMICAL DATA: Oct. 1977 to Apr. 1996, Sept. 2005.

BIOLOGICAL DATA: Oct. 1997 to Aug. 1995.

PESTICIDE DATA: Nov. 1977 to July 1981, Apr. 1996 to current year.

RADIOCHEMICAL DATA: Feb. 1981 to July 1981.

SEDIMENT DATA: Sept. 1978 to Apr. 1979.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 1 of 11

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Instan- taneous dis- charge, cfs (00061)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)
Apr 07...	1320	Surface water, regular	27	762	6.5	75	7.5	697	22.3
Jun 10...	1030	Surface water, regular	2.1	761	5.5	70	7.8	1,120	27.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 11

[Remark codes: <, less than; E, estimated.]

Date	Alum- inum, water, fltrd, μg/L (01106)	Alum- inum, water, unfltrd recover- able, μg/L (01105)	Anti- mony, water, fltrd, μg/L (01095)	Barium, water, fltrd, μg/L (01005)	Beryll- ium, water, fltrd, μg/L (01010)	Cadmium water, fltrd, μg/L (01025)	Chrom- ium, water, fltrd, μg/L (01030)	Cobalt water, fltrd, μg/L (01035)	Copper, water, fltrd, μg/L (01040)	Lead, water, fltrd, μg/L (01049)	Mangan- ese, water, fltrd, μg/L (01056)	Molyb- denum, water, fltrd, μg/L (01060)	Nickel, water, fltrd, μg/L (01065)
Apr 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun 10...	3.4	180	.15	336	<.01	<.04	E.09	.43	1.9	.09	54.2	1.0	1.6

08164503 West Mustang Creek near Ganado, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 11

[Remark codes: <, less than; E, estimated.]

Date	Silver, water, fltrd, µg/L (01075)	Zinc, water, fltrd, µg/L (01090)	2,4-D methyl ester, water, fltrd, µg/L (50470)	2,4-D plus methyl ester 2,4-D µg/L as (66496)	2,4-D, water, fltrd, µg/L (39732)	2,4-DB, water, fltrd 0.7u GF µg/L (38746)	2,6-Di- ethyl- aniline water, fltrd 0.7u GF µg/L (82660)	CIAT, water, fltrd, µg/L (04040)	CEAT, water, fltrd, µg/L (04038)	OIET, water, fltrd, µg/L (50355)	3- Hydroxy carbo- furan, wat flt 0.7u GF µg/L (49308)	Aceto- chlor, water, fltrd, µg/L (49260)	Aci- fluor- fen, water, fltrd 0.7u GF µg/L (49315)
Apr 07...	--	--	<.040	<.02	<.02	<.02	<.002	E.104	E.02	.144	<.040	<.006	<.040
Jun 10...	<.1	E1.7	<.040	.21	.21	<.02	<.002	E.357	.16	E1.58	<.040	<.006	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 11

[Remark codes: <, less than; E, estimated.]

Date	Ala- chlor, water, fltrd, µg/L (46342)	Aldi- carb sulfone water, fltrd 0.7u GF µg/L (49313)	Aldi- carb sulf- oxide, wat flt 0.7u GF µg/L (49314)	Aldi- carb, water, fltrd 0.7u GF µg/L (49312)	alpha- HCH, water, fltrd, µg/L (34253)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl, water, fltrd 0.7u GF µg/L (82686)	Bendio- carb, water, fltrd, µg/L (50299)	Ben- flur- alin, water, fltrd 0.7u GF µg/L (82673)	Benomyl water, fltrd, µg/L (50300)	Bensul- furon- methyl, water, fltrd, µg/L (61693)	Ben- tazon, water, fltrd 0.7u GF µg/L (38711)	Broma- cil, water, fltrd, µg/L (04029)
Apr 07...	.103	<.08	<.060	<.12	<.002	.933	<.120	<.04	<.004	<.040	<.06	<.04	<.02
Jun 10...	<.006	<.08	<.060	<.12	<.002	1.32	<.120	<.04	<.004	<.040	<.06	E.04	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 5 of 11

[Remark codes: <, less than; E, estimated.]

Date	Brom- oxynil, water, fltrd 0.7u GF µg/L (49311)	Butyl- ate, water, fltrd, µg/L (04028)	Caf- feine, water, fltrd, µg/L (50305)	Car- baryl, water, fltrd 0.7u GF µg/L (49310)	Car- baryl, water, fltrd 0.7u GF µg/L (82680)	Carbo- furan, water, fltrd 0.7u GF µg/L (49309)	Carbo- furan, water, fltrd 0.7u GF µg/L (82674)	Chlor- amben methyl ester, water, fltrd, µg/L (61188)	Chlori- muron- ethyl, water, fltrd, µg/L (50306)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7u GF µg/L (82687)	Clopyr- alid, water, fltrd 0.7u GF µg/L (49305)	Cyana- zine, water, fltrd, µg/L (04041)
Apr 07...	<.12	<.002	<.060	<.04	<.060	<.020	<.020	<.10	<.080	<.009	<.010	<.06	<.020
Jun 10...	<.12	<.002	<.060	<.04	<.060	<.020	<.020	<.10	<.080	<.005	<.010	--	<.020

08164503 West Mustang Creek near Ganado, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 6 of 11

[Remark codes: <, less than; E, estimated.]

Date	Cyclo- ate, water, fltrd, µg/L (04031)	Dacthal mono- acid, water, fltrd 0.7u GF µg/L (49304)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Dicamba water, fltrd 0.7u GF µg/L (38442)	Di- chlor- prop, water, fltrd 0.7u GF µg/L (49302)	Diel- drin, water, fltrd, µg/L (39381)	Dinoseb water, fltrd 0.7u GF µg/L (49301)	Diphen- amid, water, fltrd, µg/L (04033)	Disul- foton, water, fltrd 0.7u GF µg/L (82677)	Diuron, water, fltrd 0.7u GF µg/L (49300)	EPTC, water, fltrd 0.7u GF µg/L (82668)
Apr 07...	<.02	<.02	<.003	E.001	<.005	<.04	<.02	<.009	<.04	<.04	<.04	E.01	<.002
Jun 10...	<.02	<.02	<.003	E.003	<.005	<.04	<.02	<.009	<.04	<.04	<.04	<.04	<.002

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 7 of 11

[Remark codes: <, less than; E, estimated.]

Date	Ethal- flur- alin, water, fltrd 0.7u GF µg/L (82663)	Etho- prop, water, fltrd 0.7u GF µg/L (82672)	Fenuron water, fltrd 0.7u GF µg/L (49297)	Desulf- inyl- fipro- nil amide, wat flt µg/L (62169)	Fipro- nil sulfide water, fltrd, µg/L (62167)	Fipro- nil sulfone water, fltrd, µg/L (62168)	Fipro- nil, water, fltrd, µg/L (62166)	Flumet- sulam, water, fltrd, µg/L (61694)	Fluo- meturon water, fltrd 0.7u GF µg/L (38811)	Fonofos water, fltrd, µg/L (04095)	Imaza- quin, water, fltrd, µg/L (50356)	Imaze- thapyr, water, fltrd, µg/L (50407)	Imida- cloprid water, fltrd, µg/L (61695)
Apr 07...	<.009	<.024	<.04	<.029	E.003	E.003	<.020	<.06	<.04	<.010	<.04	E.23	<.060
Jun 10...	<.009	<.012	<.04	E.003	E.010	E.009	E.004	<.06	<.04	<.010	E.01	<.04	<.060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 8 of 11

[Remark codes: <, less than; E, estimated.]

Date	Lindane water, fltrd, µg/L (39341)	Linuron water, fltrd 0.7u GF µg/L (38478)	Linuron water, fltrd 0.7u GF µg/L (82666)	Mala- thion, water, fltrd, µg/L (39532)	MCPA, water, fltrd 0.7u GF µg/L (38482)	MCPB, water, fltrd 0.7u GF µg/L (38487)	Meta- laxyl, water, fltrd, µg/L (50359)	Methio- carb, water, fltrd 0.7u GF µg/L (38501)	Meth- omyl, water, fltrd 0.7u GF µg/L (49296)	Methyl para- thion, water, fltrd 0.7u GF µg/L (82667)	Metola- chlor, water, fltrd, µg/L (39415)	Metri- buzin, water, fltrd, µg/L (82630)	Metsul- furon- methyl, water, fltrd, µg/L (61697)
Apr 07...	<.006	<.02	<.060	<.016	<.06	<.06	.10	<.040	<.120	<.008	.119	<.012	<.14
Jun 10...	<.006	<.02	<.060	<.016	<.06	<.06	<.02	<.040	<.120	<.008	.040	<.012	<.14

08164503 West Mustang Creek near Ganado, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 9 of 11

[Remark codes: <, less than; E, estimated.]

Date	Molinate, water, fltrd 0.7u GF μg/L (82671)	N-(4-Chlorophenyl)-N'-methyl-urea, water, fltrd 0.7u GF μg/L (61692)	Napropamide, water, fltrd 0.7u GF μg/L (82684)	Neburon, water, fltrd 0.7u GF μg/L (49294)	Nicosulfuron, water, fltrd 0.7u GF μg/L (50364)	Norflurazon, water, fltrd 0.7u GF μg/L (49293)	Oryzalin, water, fltrd 0.7u GF μg/L (49292)	Oxamyl, water, fltrd 0.7u GF μg/L (38866)	p,p'-DDE, water, fltrd μg/L (34653)	Parathion, water, fltrd μg/L (39542)	Pebulate, water, fltrd 0.7u GF μg/L (82669)	Pendimethalin, water, fltrd 0.7u GF μg/L (82683)	Phorate, water, fltrd 0.7u GF μg/L (82664)
Apr 07...	<.008	<.12	<.018	<.02	<.10	<.02	<.04	<.12	<.003	<.010	<.004	<.012	<.040
Jun 10...	.019	<.12	<.018	<.02	<.10	<.02	<.04	<.12	<.003	<.010	<.004	<.012	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 10 of 11

[Remark codes: <, less than; E, estimated.]

Date	Picloram, water, fltrd 0.7u GF μg/L (49291)	Prometon, water, fltrd μg/L (04037)	Propyzamide, water, fltrd 0.7u GF μg/L (82676)	Propachlor, water, fltrd μg/L (04024)	Propanil, water, fltrd 0.7u GF μg/L (82679)	Propragite, water, fltrd 0.7u GF μg/L (82685)	Propham, water, fltrd 0.7u GF μg/L (49236)	Propiconazole, water, fltrd μg/L (50471)	Proxur, water, fltrd 0.7u GF μg/L (38538)	Siduron, water, fltrd μg/L (38548)	Simazine, water, fltrd μg/L (04035)	Sulfometuron-methyl, water, fltrd μg/L (50337)	Tebu-thiuron, water, fltrd 0.7u GF μg/L (82670)
Apr 07...	<.12	<.01	<.004	<.006	<.006	<.04	<.040	<.04	<.040	<.02	.057	<.060	<.02
Jun 10...	--	<.01	<.004	<.006	<.006	<.04	<.040	E.02	<.040	<.02	.019	<.060	E.15

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 11 of 11

[Remark codes: <, less than; E, estimated.]

Date	Terbacil, water, fltrd 0.7u GF μg/L (82665)	Terbacil, water, fltrd μg/L (04032)	Terbufos, water, fltrd 0.7u GF μg/L (82675)	Thiobencarb, water, fltrd 0.7u GF μg/L (82681)	Triallate, water, fltrd 0.7u GF μg/L (82678)	Tri-clopyr, water, fltrd 0.7u GF μg/L (49235)	Tri-fluralin, water, fltrd 0.7u GF μg/L (82661)	Uranium natural water, fltrd μg/L (22703)
Apr 07...	<.018	<.040	<.02	<.010	<.006	<.08	<.006	--
Jun 10...	<.018	<.040	<.02	.085	<.006	<.08	<.006	2.00